NHII 03

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Standards (including Vocabulary): Past ~ Present ~ Bright Future?

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Content standards include:

- ◆ Data elements, e.g., gender, presenting complaint)
- ◆ Descriptions of entities, e.g., birth certificate
- ◆ Messages, e.g., lab test result
- ◆ Allowable values for data elements, which can be entire *vocabularies*
- ◆ Mappings between different value sets, e.g., between SNOMED and ICD-9-CM
- ◆ Information models that define the context in which standards are used
- ◆ Survey questions and any coded responses
- ◆ Guideline, protocol, and algorithm formats



This topic has been addressed before ...

- ◆ 1991 IOM:The Computer-Based Patient Record
 - **◆ 1994 AMIA Board of Directors**
- ◆ 1995 PHS: Making a Powerful Connection
- **◆ 1996 Congress**: *HIPAA*
- **▶ 2000 IOM**: *To Err is Human*
- ◆ 2000 NCVHS: Report on Standards for PMRI
- ◆ 2001 IOM: Crossing the Quality Chasm
- ▶ **2001 AMIA Congress**: *PH Informatics Agenda*
- ▶ **2002 NCVHS:** *PMRI recommendations (1st Set)*
- **2002 AMIA Congress**: *Drug Nomenclature/Information*
- **2002 AAMC conference**: IT Enabling Clinical Research
- **2003 CHI eGov:** U.S. gov't target standards (1st set)
- 2003 Connecting for Health: Standards Wk.Gr.Report

To summarize.... (1)

- ◆Establish a mechanism for designating uniform National Standards
- ◆Pick best available as starting point
- ◆Broaden participation in standards development
- ◆Support development, maintenance, and low/no cost distribution



To summarize.... (2)

- ◆Promote use and improvement through:
 - Early Federal adoption
 - Conformance and production testing
 - Demonstration projects, Cost/benefit research
 - Financial incentives
- ◆ Coordinate development and maintenance to achieve comprehensive, non-overlapping, interlocking standards



◆Establish a mechanism for designating uniform National Standards

- 1996 HIPAA regulations established as mechanism for administrative standards
- **2000** NCVHS recommends federal guidance and early adoption *not* regulation for clinical standards
- 2002 Consolidated Health Informatics (CHI) eGov project becomes vehicle for adopting *target* U.S. government-wide clinical standards



◆Pick best available as starting point

- 2000 Final HIPAA transactions and code sets regulation published (effective October 2003)
- 2002 NCVHS recommends adoption of 4 clinical messaging standards
- 2003 March CHI adopts NCVHS recommendations, plus LOINC, as target U.S. government-wide standards *more coming*
 - http://www.whitehouse.gov/omb/egov/gtob/health_i nformatics.htm



- **◆Broaden participation in standards** development
 - 1999 Public Health Data Standards Consortium



• 2002 – Connecting for Health







- **♦** Support development, maintenance, and low/no cost distribution
- ◆Federal support for vocabulary
 - 1999 LOINC contract
 - 2002 RxNorm development
 - 2003 SNOMED CT contract & license
 - http://www.nlm.nih.gov/research/umls
 - 2004 Uniform distribution of standard clinical vocabularies and HIPAA code sets in UMLS



♦ Support development, maintenance, and low/no cost distribution

- **◆** HL7
 - Increased pace and scope of activity, e.g.,
 - Implementation guides; Reference Information Model; Templates; Guidelines; Decision support rules; Electronic Health Record
 - Additional financial support



Much remains to be done

- ◆ More message implementation guides, other vocabularies, etc.
- ◆The "rest" of the content standards
- ◆ Growing HL7's capacity while retaining its great strength:
 - standards developers who will actually use the standards they are developing.



The Real Challenges

- ◆Promote use and improvement through:
 - Early Federal adoption
 - Conformance and production testing
 - Demonstration projects, Cost/benefit research
 - Financial incentives
- ◆ Coordinate development and maintenance to achieve comprehensive, non-overlapping, interlocking standards
- **♦**Solve the "update" problem

